## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-29 (cancelled).

30 (currently amended). Particles of an esterifiable scale inhibitor cross-linked with a polyol via ester cross-links, wherein said ester cross-links are hydrolysable to release said scale inhibitor, and wherein the particles have a mean diameter of less than 1 micron.

31 (previously presented). Particles as claimed in claim 30 wherein the esterifiable scale inhibitor is carboxylic acid-containing, organophosphorus-containing or organosulfur-containing.

32 (previously presented). Particles as claimed in claim 31 wherein the carboxylic acid-containing scale inhibitor is selected from the group consisting of homopolymers of an alpha, beta-ethylenically unsaturated carboxylic acid or copolymers containing as one of its components, an alpha, beta-ethylenically unsaturated carboxylic acid.

33 (previously presented). Particles as claimed in claim 31 wherein the organophosphorus-containing esterifiable scale inhibitor is selected from the group consisting of organophosphates, organophosphonates and polyphosphonates.

34 (previously presented). Particles as claimed in claim 31 wherein the organosulfur-containing esterifiable scale inhibitor is selected from the group consisting of homopolymers of vinylsulfonic acid, homopolymers of styrene sulfonic acid, copolymers of vinyl sulfonic acid and styrene sulfonic acid, copolymers of vinyl sulfonic acid and AMPS, copolymers of styrene sulfonic acid and AMPS and copolymers of vinyl sulfonic acid, styrene sulfonic acid and AMPS.

35 (previously presented). Particles as claimed in claim 31 wherein the esterifiable scale inhibitor is polymeric and has a molecular weight in the range 200 to 20,000, preferably 800 to 10,000.

36 (previously presented). Particles as claimed in claim 30 wherein the esterifiable scale inhibitor is crosslinked with a polyol selected from the group consisting of ethylene glycol, glycerol and their higher homologs; dihydroxy-terminated polyethylene oxides or polypropylene oxides; polyvinyl alcohols and co-polymers of vinyl alcohol.

37 (previously presented). Particles as claimed in claim 36 wherein the polyol has a molecular weight in the range 500 to 130,000, more preferably in the range 5,000 to 50,000.

38-43 (cancelled).

44 (previously presented). A process for preparing particles of an esterifiable scale inhibitor cross-linked with a polyol via ester cross-links comprising the steps of:

- a) heating, in a reactor vessel, a concentrate comprising water, an esterifiable scale inhibitor, a polyol, and a strong acid catalyst under low shear conditions thereby forming a macrogel of the esterifiable scale inhibitor cross-linked with the polyol;
  - b) drying the macrogel to form a solid; and
- c) comminuting the solid to give particles of esterifiable scale inhibitor crosslinked with polyol having a mean particle diameter of less than 1 micron.

45 (previously presented). A process as claimed in claim 44 wherein the shear rate in the reactor vessel is less than 0.1 ms<sup>-1</sup>, preferably less than 0.005 ms<sup>-1</sup>.

46 (previously presented). A process as claimed in claim 44 wherein the dried solid contains less than 0.1 % by weight of water, more preferably less than 0.05 % by weight of water.

47 (previously presented). A process as claimed in claim 44 wherein the comminuted particles have a mean diameter in the range 100-750 nm, more preferably 200-500 nm.

48 (previously presented). A process as claimed in claim 44 wherein the solid is comminuted in the presence of a polymer which coats the exposed surfaces of the comminuted particles.

49 (previously presented). A suspension comprising particles of an esterifiable scale inhibitor cross-linked with a polyol as defined in claim 30 dispersed in a liquid medium.

50 (previously presented). A suspension as claimed in claim 49 wherein the liquid medium is an oil, an organic solvent or water.

51 (previously presented). A suspension as claimed in claim 49 wherein the amount of particles dispersed in the liquid medium is the range of from 20 to 50 % by weight.

52 (previously presented). A method of inhibiting scale formation in a subterranean formation comprising:

(a) injecting a suspension comprising particles of a controlled release scale inhibitor suspended in an aqueous medium into a formation through an injection well wherein the particles have a mean diameter of less than 1 micron;

(b) allowing the suspension to percolate through the subterranean formation towards a production well; and

(c) controllably releasing the scale inhibitor from the particles in the near well bore region of the production well.

53 (currently amended). A method as claimed in claim 52 wherein the particles comprise an esterifiable scale inhibitor crosslinked with a polyol through ester crosslinks as defined in claim 52 which are hydrolysable to release said scale inhibitor.

54 (previously presented). A method as claimed in claim 53 wherein the particles start to release the scale inhibitor through hydrolysis of the ester cross-links at a temperature of 50 to 150°C.

55 (previously presented). A method as claimed in claim 52 wherein the suspension propagates through the formation at a rate of 15 to 100 feet per day.

56 (previously presented). A method as claimed in claim 52 wherein the injection well is 0.25 to 1 mile from the production well.

57 (previously presented). A method as claimed in claim 53 wherein the esterifiable scale inhibitor cross-linked with a polyol is continuously dosed into the injection water in an amount in the range 0.01 to 2 weight percent, preferably 0.01 to 0.1 weight percent.

58 (previously presented). A method as claimed in claim 52 wherein the amount of scale inhibitor released into the production water is preferably in the range 1 to 200 ppm.